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(71)Applicant : SHARP CORP

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(72)Inventor : SAI YUKIHIRO

(54) DIGITAL FILTER WITH ATTENUATOR FUNCTION

(57)Abstract:

PURPOSE: To attain miniaturization and to prevent production of switching noise by using a multiplier for a digital filter also for an attenuator.

CONSTITUTION: A digital signal is supplied to a digital filter 1 with attenuator function and the calculation of the digital filter and the attenuator is implemented in the inside of the digital filter 1. Then the result is outputted in a form of a digital signal and the digital signal is converted into an analog signal by a D/A converter 2 and given to an amplifier 3. Thus, miniaturization is attained and the attenuator function is provided inexpensively, and since attenuation is applied without modifying the digital signal, the production of switching noise is prevented.



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